The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. A method for processing payload requests, the method comprising: obtaining a set of criteria for delivering at least one payload, the set of criteria including one or more criterion;

generating a set of arrays corresponding to each criterion in the set of criteria, the set of arrays including a plurality of array elements corresponding to periods of time;

obtaining a request for a payload, the payload request including a set of request having one or more criterion wherein the payload request is associated with a time; and incrementing a numerical identifier in the set of arrays corresponding to the time associated with the payload request.

2. The method as recited in Claim 1, wherein generating a set of arrays corresponding to each criteria in the set of criteria includes:

parsing the set of criteria in a particular order; and

generating a set of arrays in an order corresponding to the particular order of the set criteria.

- 3. The method as recited in Claim 1 further comprising processing the numerical identifiers in the set of arrays to predict an estimated number of future payload requests.
- 4. The method as recited in Claim 3, wherein the processing includes applying a trend analysis.
- 5. The method as recited in Claim 4, wherein the trend analysis includes a least-squared trend analysis.

- 6. The method as recited in Claim 4, wherein the trend analysis includes a liner regression trend analysis.
- 7. The method as recited in Claim 4, wherein the trend analysis includes as set theory trend analysis.
- 8. The method as recited in Claim 1, wherein the payload is an advertisement from an advertisement campaign.
- 9. The method as recited in Claim 8, wherein the set of payload criteria includes user demographic information.
- 10. The method as recited in Claim 9, wherein the user demographic information includes a user age.
- 11. The method as recited in Claim 9, wherein the user demographic information includes a user gender.
- 12. The method as recited in Claim 8, wherein the set of payload criteria includes one or more keywords.
- 13. The method as recited in Claim 8, wherein the set of payload criteria includes an identifier of a content provider.
- 14. The method as recited in Claim 1, wherein each array in the set of array includes 168 array elements.
- 15. The method as recited in Claim 14, wherein the array elements are representative of 1 hour increments.
- 16. A computer-readable medium having computer-executable instructions operable to perform the method recited in Claim 1.

- 17. A computer system having a processor, a memory and an operating environment, the computer system operable for performing the method recited in Claim 1.
- 18. A system for processing payload requests, the payload requests associated with a set of payload criteria having one or more criterion, the system comprising:

a payload processor operable to obtain the payload criteria and generate a set of arrays corresponding to each criterion in the set of payload criteria, the set of arrays including a plurality of array elements corresponding to periods of time, the payload processor further operable to obtain a set of payload request criteria and increment a numerical identifier in the set of arrays corresponding to a time associated with the payload request; and

a payload manager operable to obtain the set of arrays and to process data within the set of arrays.

- 19. The system as recited in Claim 18, wherein the payload is an advertisement from an advertisement campaign.
- 20. The system as recited in Claim 19, wherein the set of payload criteria includes user demographic information.
- 21. The system as recited in Claim 20, wherein the user demographic information includes a user age.
- 22. The system as recited in Claim 20, wherein the user demographic information includes a user gender.
- 23. The system as recited in Claim 18, wherein the set of payload criteria includes one or more keywords.

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- 24. The system as recited in Claim 18, wherein the set of payload criteria includes an identifier of a content provider.
- 25. The system as recited in Claim 18 further comprising a user information store operable to obtain a user identifier and provide user identifier criteria to the set of payload request criteria.
- 26. The system as recited in Claim 18, wherein the payload manager is operable to generate future payload and request capacity data by processing the data within the set of arrays.
- 27. The system as recited in Claim 26, wherein the payload manager generates future inventory payload data by applying a forecasting method.
- 28. The system as recited in Claim 27, wherein the forecasting method includes a least-squared trend analysis.
- 29. The system as recited in Claim 27, wherein the forecasting method includes a liner regression trend analysis.
- 30. The system as recited in Claim 27, wherein the forecasting method includes as set theory trend analysis.
- 31. The system as recited in Claim 16, wherein each array in the set of array includes 168 array elements.
- 32. The system as recited in Claim 31, wherein the array elements are representative of 1 hour increments.
- 33. The system as recited in Claim 18, wherein the payload manager is operable to generate advertisement campaign compliance data by processing the data within the set of arrays.

34. A computer-readable medium having computer-executable components for processing payload requests, the computer-readable medium comprising:

a payload processing component operable to obtain payload criteria including one or more criterion corresponding to a payload request and generate a set of arrays corresponding to each criterion in the set of payload criteria, the set of arrays including a plurality of array elements corresponding to periods of time, the payload processing component further operable to obtain a set of payload request criteria and increment a numerical identifier in the set of arrays corresponding to a time associated with the payload request; and

a payload manager operable to obtain the set of arrays and to process data within the set of arrays.

- 35. The computer-readable medium as recited in Claim 34, wherein the payload is an advertisement from an advertisement campaign.
- 36. The computer-readable medium as recited in Claim 34, wherein the set of payload criteria includes user demographic information.
- 37. The computer-readable medium as recited in Claim 36, wherein the user demographic information includes a user age.
- 38. The computer-readable medium as recited in Claim 37, wherein the user demographic information includes a user gender.
- 39. The computer-readable medium as recited in Claim 34, wherein the set of payload criteria includes one or more keywords.
- 40. The computer-readable medium as recited in Claim 34, wherein the set of payload criteria includes an identifier of a content provider.

- 41. The computer-readable medium as recited in Claim 34 further comprising a user information component operable to obtain a user identifier and provide user identifier criteria to the set of payload request criteria.
- 42. The computer-readable medium as recited in Claim 34, wherein each array in the set of array includes 168 array elements.
- 43. The computer-readable medium as recited in Claim 42, wherein the array elements are representative of 1 hour increments.
- 44. The computer-readable medium as recited in Claim 34, wherein the payload manager is operable to generate future payload and request capacity data by processing the data within the set of arrays.
- 45. The computer-readable medium as recited in Claim 44, wherein the payload manager generates future inventory payload data by applying a forecasting method.
- 46. The computer-readable medium as recited in Claim 45, wherein the forecasting method includes a least-squared trend analysis.
- 47. The computer-readable medium as recited in Claim 45, wherein the forecasting method includes a liner regression trend analysis.
- 48. The computer-readable medium as recited in Claim 45, wherein the forecasting method includes as set theory trend analysis.
- 49. The computer-readable medium as recited in Claim 34, wherein the payload manager is operable to generate advertisement campaign compliance data by processing the data within the set of arrays.

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